इंटरनेट मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

"जानने का अधिकार, जीने का अधिकार"
Mazdoor Kisan Shakti Sangathan
"The Right to Information, The Right to Live"

"पुराने को छोड नये के तरफ"
Jawaharlal Nehru
"Step Out From the Old to the New"

IS 9848 (1987): Briefcases, Plastic Body [PCD 12: Plastics]

"ज्ञान से एक नये भारत का निर्माण"
Satyanarayan Gangaram Pitroda
"Invent a New India Using Knowledge"

Act Number 22 of 2005
The Indian Parliament
RIGHT TO INFORMATION

Made Available By
Public.Resource.Org

"ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है"
Bhartṛhari—Nītiśatakam
"Knowledge is such a treasure which cannot be stolen"

BLANK PAGE

BRUTUM FULMEN

IGNORANTIA JURIS NON EXCUSAT

PROTECTED BY COPYRIGHT

IS : 9848 - 1987

(Reaffirmed 2003)

Indian Standard

SPECIFICATION FOR BRIEFCASES, PLASTIC BODY

(First Revision)

UDC 688·351 (678·5/·8)

© *Copyright* 1987

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Gr 2

October 1987

Indian Standard

SPECIFICATION FOR BRIEFCASES, PLASTIC BODY

(First Revision)

Travel Requisites Sectional Committee, CPDC 18

Chairman	*Representing*
*Cdr S. P. Dutt	Naval Headquarters, New Delhi
Members	
Shri M. P. Bajpai	Tannery & Footwear Corporation of India Ltd, Kanpur
Prof Moni Banerjee	Prof Moni Banerjee & Associates, Calcutta
Shri A. T. Basak	Directorate of Supplies and Disposals, New Delhi
Shri R. S. Bhat	Maharashtra Small Scale Industries Development Corporation Ltd, Bombay
Capt A. C. Bhatia	Naval Headquarters, New Delhi
Shri B. S. Bhatnagar	Bengal Waterproof Ltd, Calcutta
Shri B. Dutta (*Alternate*)	
Shri S. C. Bhatnagar	Indian Airlines, New Delhi
Shri Mrinal Kanti Chakraborty	West Bengal State Leather Industries Development Corporation Ltd, Calcutta
Shri Bikas Kumar Dey (*Alternate*)	
Shri P. Chowdhury	V. I. P. Industries Ltd, Bombay
Shri S. L. Kulkarni (*Alternate*)	
Shri K. K. Chowdhury	Railway Board (Ministry of Railways), New Delhi
Shri J. K. Dutta	State Trading Corporation of India Ltd, New Delhi
Shri Jane Alam	Export Promotion Council for Finished Leather & Leather Manufacturer, Kanpur
Shri J. K. Jhaver	Zip Industries Pvt Ltd, Madras
Shri G. Vishnu Vardhan (*Alternate*)	
Shri R. J. Kanal	Air-India, Bombay
Shri K. V. Bhat (*Alternate*)	

(*Continued on page* 2)

---

*Cdr S. P. Dutt was the chairman for the meeting in which this standard was finalized.

© *Copyright* 1987

BUREAU OF INDIAN STANDARDS

This publication is protected under the *Indian Copyright Act* (XIV of 1957) and reproduction in whole or in part by any means except with written permission of the publisher shall be deemed to be an infringement of copyright under the said Act.

(*Continued from page* 1)

Members	*Representing*
Shri Vasant B. Kharat	Elegant Crafts, Bombay
Shri C. K. Marfatia	Universal Luggage Manufacturing Co Pvt Ltd, Bombay
Shri K. Ramamurthy (*Alternate*)	
Shri M. S. Mohanty	Polytechnic, Rayagada
Shri K. P. Mahmood	Directorate General of Technical Development, New Delhi
Shri T. K. Nag	Khadi and Village Industries Commission, Bombay
Shri V. B. Desai (*Alternate*)	
Dr R. Panda	National Engineering Industries Ltd, Calcutta
Shri T. K. Parthasarathi	Central Leather Research Institute (CSIR), Madras
Shri K. Radhakrishan (*Alternate*)	
Air Cdre K. Rajan	Ministry of Defence (DRDO)
Shri V. P. Chirayath (*Alternate*)	
Representative	Ouro Novelties, Bombay
Shri D. K. Seth	Bharat Leather Corporation Ltd, New Delhi
Shri Pradeep K. Shroff	Nylo Plast Industries Pvt Ltd, Bombay
Shri M. P. A. Mathias (*Alternate*)	
Lt-Col R. M. Singh	Ministry of Defence (DGI), New Delhi
Shri Y. R. Chawla (*Alternate*)	
Dr A. S. Sethi, Director (Consr Prods & Med Instrs)	Director General, BIS (*Ex-officio Member*)

Secretary

Shri M. K. Bhatia
Joint Director (Consr Prods & Med Instrs), BIS

Indian Standard

SPECIFICATION FOR BRIEFCASES, PLASTIC BODY

(First Revision)

0. FOREWORD

0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 24 March 1987, after the draft finalized by the Travel Requisites Sectional Committee had been approved by the Consumer Products and Medical Instruments Division Council.

0.2 This standard was first issued in 1981. The clauses **1.1**, **2.1** and **4.5**, which called for an agreement between the purchaser and the supplier, have been deleted in this revision. In this revision the drop test has been modified and xenon arc fadeometer test for colour fastness has been added. Keeping in view the present manufacturing practice, the dimensions, some of the materials, electroplating and other requirements have been modified.

0.3 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard covers requirements and methods of sampling and test for briefcases made of moulded HDPE, ABS, PP, GRP†.

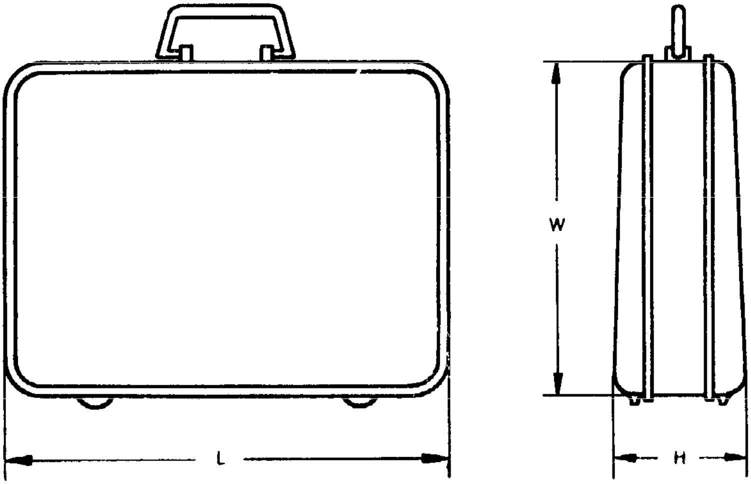
2. SHAPE AND DIMENSIONS

2.1 The shape and dimensions of the briefcases shall conform to Fig. 1.

---

*Rules for rounding off numerical values (*revised*).

†HDPE — High Density Polyethylene
ABS — Acrylo Nitrite Butadiene Styrene
PP — Poly Propylene
GRP — Glass Reinforced Plastics



Size	Length (L) External	Width (W) External	Height (H) External
1	400 ± 25	300 ± 20	70 to 130
2	480 ± 35	360 ± 25	70 to 140

All dimensions in millimetres.

FIG. 1 BRIEFCASE, PLASTIC BODY

3. MATERIALS

3.1 The various components of the briefcases shall be made from materials specified in Table 1. Materials not specifically designated shall be suitable for the purpose intended.

4. MANUFACTURE, WORKMANSHIP AND FINISH

4.1 The briefcases shall be sound in construction with texturised outside surface. They shall not have any sharp edges or other constructional defects.

4.2 The body and the lid of the briefcases shall be reinforced with aluminium alloy frame or any suitable sheet metal frame.

TABLE 1 MATERIALS FOR COMPONENTS OF BRIEFCASES

(*Clauses* 3.1 *and* 4.6)

Sl No.	Component	Material	Conforming to
(1)	(2)	(3)	(4)
i)	Body	HDPE, ABS, PP or GRP	—
ii)	Reinforcing frame	Aluminium alloy or Sheet metal	—
iii)	Lining material	Lining leather or	Type 2 or 3 of IS : 3840-1979[*]
		Leather cloth or	Grade 4 of IS : 1259-1984[†]
		Rayon satin lining cloth or	IS : 2136-1974[‡]
		Cotton gaberdine or	IS : 1423-1985[§]
		Silk cloth or	IS : 1687-1960[‖]
		As agreed	
iv)	Channel	Alumininium alloy or steel or brass or plated ABS	—
v)	Lock	Steel or brass or zinc aluminium alloy	—
vi)	Hinges	Steel or brass	—
vii)	Rivets	Steel or aluminium or brass or German silver (solid or tubular)	—

[*] Specification for lining leather (*first revision*).

[†] Specification for vinyl coated fabrics (*third revision*).

[‡] Specification for rayon satin lining cloth (*first revision*).

[§] Specification for cotton gaberdine (*second revision*).

[‖] Specification for handloom silk *KORA* (loomstate) cloth.

4.3 The handle of the briefcases shall be made of moulded HDPE, ABS, PP or PVC and shall be reinforced with steel wire or steel strip, if necessary. The two ends of the handle shall be secured to the briefcase as agreed to between the purchaser and the supplier. A minimum gap of 35 mm shall be provided between the handle and the body to give a comfortable grip. Inside length of the handle shall be not less than 90 mm.

4.3.1 In the case of spring-action handle, the above dimensions shall be checked after the handle is in loaded/lifted condition.

4.4 Each briefcase shall be equipped with suitable locking arrangements. The locks shall be firmly secured to the front of the briefcase. The type, design and mode of securing the locks to the briefcase shall be as agreed to between the purchaser and the supplier.

4.5 All visible steel components, except hinges, shall be electroplated chromium over nickel with nickel as 15 microns and chromium as 0·3 microns conforming to IS : 1068-1985*. The other components including hinges shall be given a suitable protective coatings.

4.6 The inner side of the briefcases shall be neatly finished, with or without an engraved design. If desired by the purchaser, the inner side may be lined with lining material as specified in Table 1.

4.7 The briefcase feet shall be provided at the rear side of the briefcase (opposite side of the handle) to avoid ground contact while standing on the rear side. The rocking shall be not more than 0·75 mm.

4.8 When the lid of the briefcase is open, the briefcase shall not topple or overturn.

4.9 Tie tapes and pockets with suitable fasteners to close the pockets shall be provided as agreed to between the purchaser and the supplier.

4.10 The briefcases shall be free from visual defects like flow lines, poor colour dispersion, black and white spots, embedded foreign matters, waviness, pits, deformed or broken lugs, etc.

4.11 In respect of appearance, general workmanship and finish, the briefcase shall conform to the sample previously approved by the consumer.

5. TESTS

5.1 Performance Test — The briefcase, in loaded condition, shall be opened and closed 100 times. There shall not be any obstruction in this process. After opening and closing 100 times, the briefcase in further use shall open and close smoothly.

5.2 Performance Test for Locks and Latches — The locks and latches shall be opened and closed 1 000 times. They shall not show any sign of malfunctioning after the test.

5.3 Drop Test — The locked briefcase shall be dropped from a height of 1 m, on a normal concrete or tiled floor or on a steel plate having a minimum thickness of 4·5 mm, with a total mass of 0·4 kg for every litre of internal volume on (a) the lugs, (b) top and bottom sides, and (c) at two diagonally opposite corners. The same briefcase shall be used for all these tests. The briefcase after these tests shall be examined. The body and the frame shall not show any cracks and the lock shall not open out.

---

*Specification for electroplated coatings of nickel and chromium on iron and steel (*second revision*).

5.4 Creep Test — The handle of the briefcase shall be tested for tendency to come out of the fitting due to creep. For this, the briefcase, shall be hung under static conditions for 200 hours with a total mass of 0·4 kg for every litre of internal volume. The handle shall not come out of its fittings.

5.5 Fatigue Test — The briefcase with a total mass of 0·4 kg for every litre of internal volume shall be allowed to vibrate minimum 4 000 times with an amplitude of 20 mm. The handle of the briefcase shall not fail in this test.

5.6 Colour Fastness Test — The briefcase shall be tested by any one of the merhods covered in **5.6.1** and **5.6.2**.

5.6.1 The briefcase shall be kept in an open atmosphere so that the outside surface is exposed to bright sunlight for at least 6 hours in a day. The briefcase shall be kept in this condition for a few days until the total exposure to sunlight is 48 hours. After this test the briefcase shall be examined with reference to a refree sample. The colour of the outside surface of the briefcase shall not show any sign of fading.

5.6.2 A panel shall be cut from the briefcase and subjected to xenon arc fadeometer test for 48 hours. After this test the panel shall be examined with reference to a referee sample. The sample of the outside surface of the sample piece shall not show any sign of decoloration.

6. SAMPLING

6.1 Unless otherwise agreed to between the purchaser and the supplier, the procedure given in IS : 2500 (Part 1)-1973* shall be followed for sampling. The sampling plan and the inspection level as given in **6.2** and **6.3** shall be followed.

6.2 The scale of sampling shall correspond to Inspection Level III given in Table 1 of IS : 2500 (Part 1)-1973* for all the requirements mentioned in this specification.

6.3 The sampling plan shall correspond to AQL plans of 4·0 percent given in Table 2 of IS : 2500 (Part 1)-1973*.

7. MARKING

7.1 Each briefcase shall be legibly marked with the following:

a) Manufacturer's name or registered trade-mark;
b) Size;
c) Name of the model, if any; and
d) Batch number and/or date of manufacture.

---

*Sampling inspection tables: Part 1 Inspection by attributes and by count of defects (*first revision*).

7.1.1 Each briefcase may also be marked with the Standard Mark.

NOTE — The use of the Standard Mark is governed by the provisions of the Bureau of Indian Standards Act, 1986 and the Rules and Regulations made thereunder. The Standard Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by BIS and operated by the producer. Standard marked products are also continuously checked by BIS for conformity to that standard as a further safeguard. Details of conditions, under which a licence for the use of the Standard Mark may be granted to manufacturers or producers, may be obtained from the Bureau of Indian Standards.

8. PACKING

8.1 The briefcases shall be packed to ensure safe transportation. They may also be packed as agreed to between the purchaser and the supplier.